

EXHIBIT D

US7449274B2 - Claim 1 as applied to Brother

Claim 1

1. **A toner for electrostatic image development, comprising toner particles in which not more than 13 percent by number of the toner particles have a particle diameter of smaller than 4 μm ,**

not less than 20 percent by number of the toner particles have a particle diameter of 4 μm to 6 μm ,

not more than 2.0 percent by volume of the toner particles have a particle diameter of 16 μm or greater,

wherein the toner particles have a volume average diameter of 4 μm to 9 μm and

at least an external additive is added to the toner particles.

Brother TN436 Toner Cartridge

The TN436 toner cartridge contains toner for electrostatic image development. The TN436 toner cartridge comprises toner particles in which at most $100 - 93.5 = 6.5$ percent by number of the toner particles have a particle diameter of smaller than 4 μm . At least 93.5 percent by number of the toner particles have a particle diameter of 4 μm or greater.

Particle Diameter μm	Brother TN _OEM Cartri _316.#m4 _Number >	Number % >	Volume μm^3 >	Volume % >
1	56236	100	5577142	100
2	56236	100	5577142	100
3	55021	97.8	5567017	99.8
4	52580	93.5	5505180	98.7
5	40735	72.4	4891531	87.7
6	17752	31.6	2864965	51.4
8	606.2	1.08	267593	4.80
10	83.17	0.15	97611	1.75
12	40	0.071	68766	1.23
15	12	0.021	35449	0.64
17	6	0.011	23545	0.42
20	2	0.0036	8964	0.16
25	0	0	0	0

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not less than 20 percent by number of the toner particles have a particle diameter of 4 μm to 6 μm ,

 not more than 2.0 percent by volume of the toner particles have a particle diameter of 16 μm or greater,

 wherein the toner particles have a volume average diameter of 4 μm to 9 μm and

 at least an external additive is added to the toner particles.

Brother TN436 Toner Cartridge

The TN436 toner cartridge comprises toner particles in which at least $93.5 - 31.6 = 61.9$ percent by number of the toner particles have a particle diameter of 4 μm to 6 μm .

Particle Diameter μm	Brother TN _OEM Cartri _316.#m4 Number >	Number % >	Volume μm^3 >	Volume % >
1	56236	100	5577142	100
2	56236	100	5577142	100
3	55021	97.8	5567017	99.8
4	52580	93.5	5505180	98.7
5	40735	72.4	4891531	87.7
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25	0	0	0	0

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Claim 1

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 comprising toner particles in which not more than
 13 percent by number of the toner particles have a
 particle diameter of smaller than 4 μm ,
 not less than 20 percent by number of the toner particles
 have a particle diameter of 4 μm to 6 μm ,
**not more than 2.0 percent by volume of the toner
 particles have a particle diameter of 16 μm or
 greater,**
 wherein the toner particles have a volume average
 diameter of 4 μm to 9 μm and
 at least an external additive is added to the toner
 particles.

Brother TN436 Toner Cartridge

The TN436 toner cartridge comprises toner particles in which at most 0.64 percent by volume of the toner particles have a particle diameter of 15 μm or greater.

Particle Diameter μm	Brother TN _OEM Cartri _316. #m4 _Number >	Number % >	Volume μm^3 >	Volume % >
1	56236	100	5577142	100
2	56236	100	5577142	100
3	55021	97.8	5567017	99.8
4	52580	93.5	5505180	98.7
5	40735	72.4	4891531	87.7
6	17752	31.6	2864965	51.4
8	606.2	1.08	267593	4.80
10	83.17	0.15	97611	1.75
12	40	0.071	68766	1.23
15	12	0.021	35449	0.64
17	6	0.011	23545	0.42
20	2	0.0036	8964	0.16
25	0	0	0	0

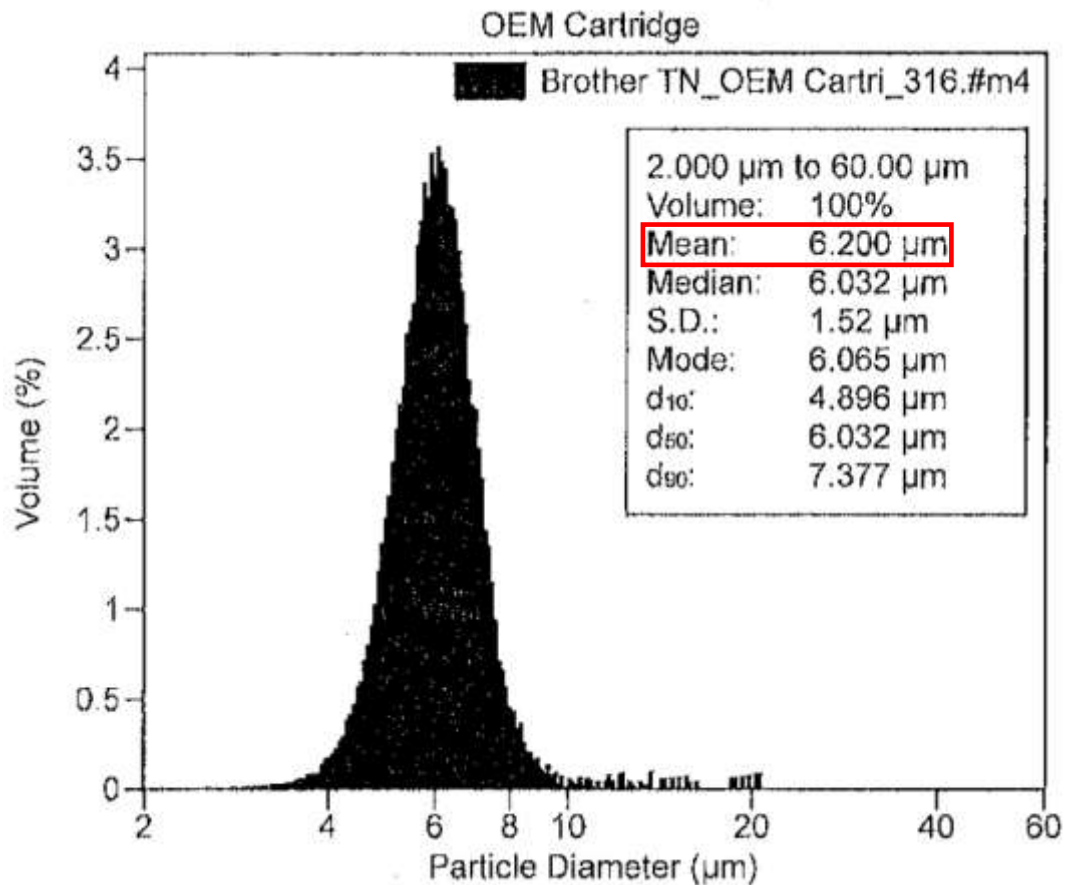
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1. A toner for electrostatic image development,
 comprising toner particles in which not more than
 13 percent by number of the toner particles have a
 particle diameter of smaller than 4 μm ,
 not less than 20 percent by number of the toner particles
 have a particle diameter of 4 μm to 6 μm ,
 not more than 2.0 percent by volume of the toner
 particles have a particle diameter of 16 μm or greater,
**wherein the toner particles have a volume average
 diameter of 4 μm to 9 μm and**
 at least an external additive is added to the toner
 particles.

Brother TN436 Toner Cartridge

The TN436 toner cartridge comprises toner particles having a volume mean (average) diameter of 6.200 μm .



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Claim 1

1. A toner for electrostatic image development, comprising toner particles in which not more than 13 percent by number of the toner particles have a particle diameter of smaller than 4 μm , not less than 20 percent by number of the toner particles have a particle diameter of 4 μm to 6 μm , not more than 2.0 percent by volume of the toner particles have a particle diameter of 16 μm or greater, wherein the toner particles have a volume average diameter of 4 μm to 9 μm and **at least an external additive is added to the toner particles.**

Brother TN436 Toner Cartridge

The TN436 toner cartridge comprises toner in which an external additive comprising amorphous silica is added to the toner particles. Silica is identified as an additive in the patent specification at col. 8, lines 18-24.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS number	Weight %	OSHA PEL	ACGIH TLV	Other
Carbon black (bound)	1333-86-4	2.5-10			
Styrene-Acrylate Copolymer	26655-10-7	50-100			
Styrene Acrylic Resin		2.5-10			
Polypropylene	9003-07-0	2.5-10			
Fumed Silica	844491-94-7	2.5-10			Amorphous Silica: USA OSHA (TWA/PEL): 20 mppcf 80 mg/m ³ , ACGIH (TWA/TLV): 10 mg/m ³ .
			TWA: 15 mg/m ³ (Total Dust), 5 mg/m ³ (Respirable Fraction)	TWA: 10 mg/m ³ (Inhalable Particulate), 3 mg/m ³ (Respirable Particulate)	TRGS 900 (Luftgrenzwert): 10 mg/m ³ (Einatembare partikel), 3 mg/m ³ (Alveolengängige fraktion), UK WEL: 10 mg/m ³ (Respirable Dust), 5 mg/m ³ (Inhalable Dust).

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